SeaQuest Status

Brian Tice

March 17, 2014

SeaQuest Collaboration Meeting
Today and Tomorrow

- Lots of progress
- Lots of excitement
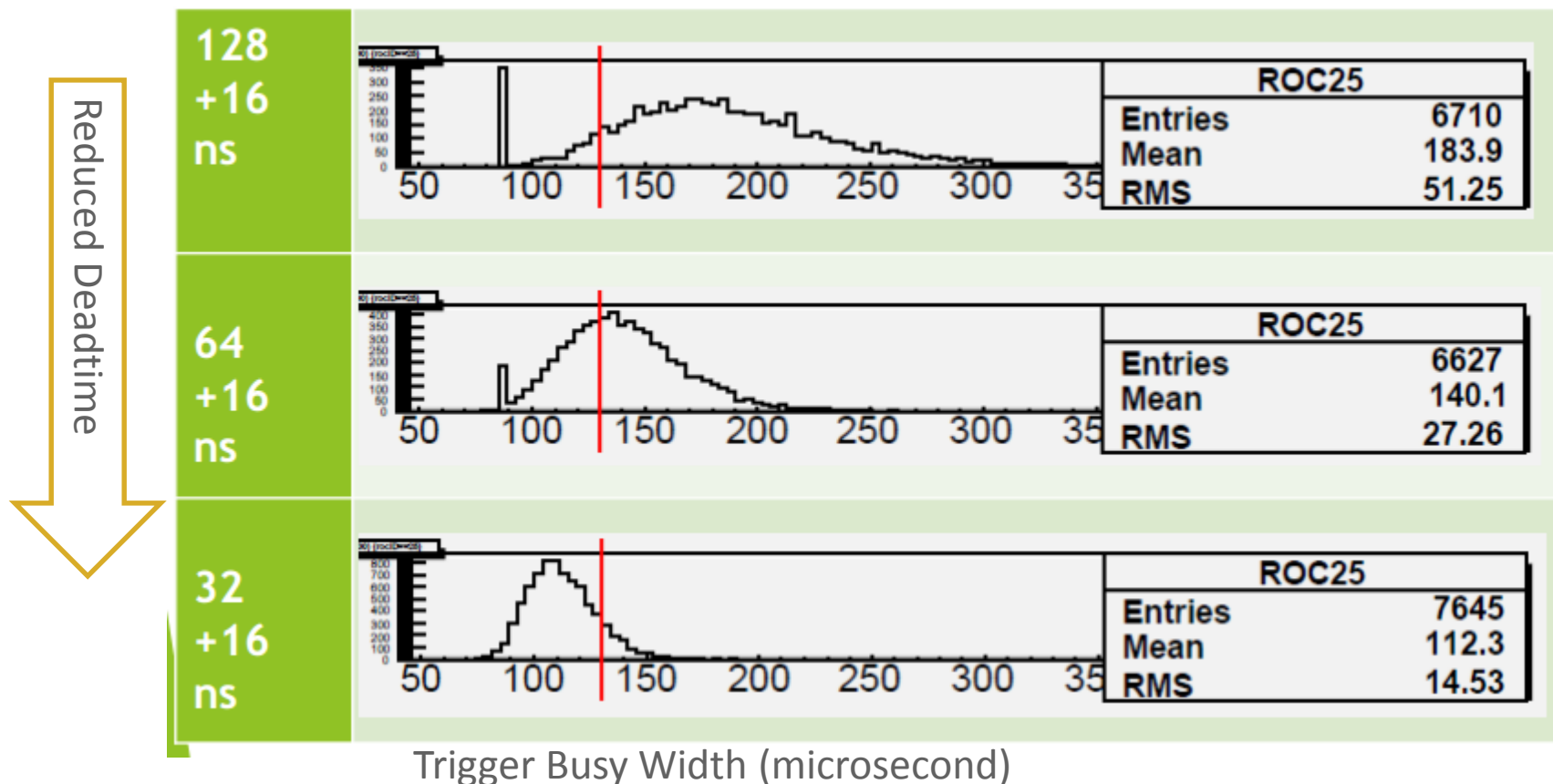- And lots of coffee

Data Recorded 3/9 - 3/16

- Primarily took standard Drell-Yan trigger data
  - 115 runs – NM3ION = 7.01E15
  - Trigger roads set "strict 7", more permissive than "strict 6". Working on 8.
- J/psi trigger
  - 8 runs – NM3ION = 2.92E14
- **NEW random trigger**
  - 11 runs – NM3ION = 2.2E14
- Special runs (includes variants on standard Drell-Yan)
  - 49 runs – NM3ION = 6.05E14

SeaQuest AEM Update

Downtimes

- ~14 hours downtime

- Sunday 9th noon – 2.5hr beam downtime
- Tuesday 11th morning – 2hr beam downtime
- Tuesday 12th overnight – 8.5hr beam downtime (LINAC)

- Thursday 14th evening – 1hr target table position slightly offset
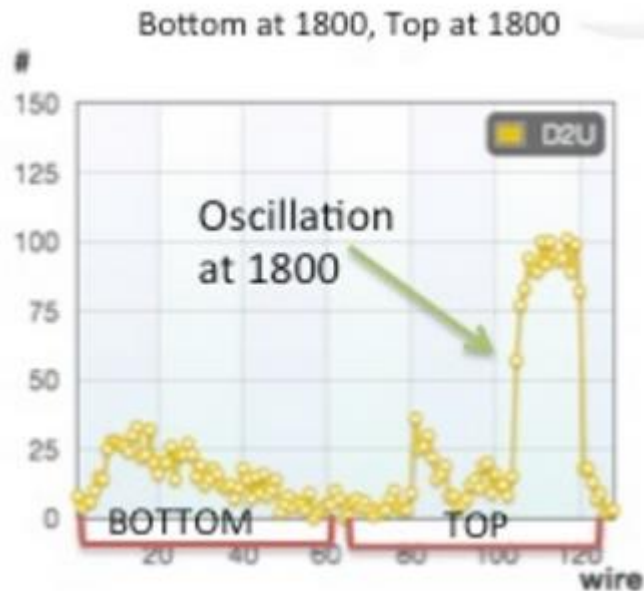 - Have changed target rotation to refind home position periodically

Deadtime studies and reduction

- Narrowed TDC readout time window – reduce event size
  - Su-Yin (Grass) Wang

Trigger Busy Width (microsecond)

Runs to Understand/Remove Oscillation in Wire Chambers

- Solved by raising ASQD thresholds
  - Arun Tadepalli, Shou Miyasaka
- All subsystems working well now

Bottom at 1800, Top at 1800

Website to Show Who's on Shift

- Considering two websites for shift scheduling
  - ECL – we don't want to change logbooks but there's a shift scheduler
  - Glaucus – by/for MINERvA for shift scheduling, collaborator organization
- **Glaucus** is easily adaptable and provides more desired features
  - Would prefer to protect the who's on shift page with a password
  - Don't want to broadcast when our shifters' homes are empty

- Ready to rollout in ~3-4 weeks

- If this is immediately needed, we put this info on my fnal web are for now